

## Product datasheet for **MG223814**

### Srd5a2 (NM\_053188) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Srd5a2 (NM_053188) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Srd5a2
Synonyms:	5ART2; S5AR 2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223814 representing NM_053188 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGATTGTGTGCCATCAGGTCCCGGTGCTGGCAGGTAGCGCCACATTGGCCACCATGGGGACCCTGA  
TCCTGTGCTTTGGGAAACCCGCCAGTTACGGGAAACACAGCGAGAGTGTGTGTCGGGAGTTCCCCTCCT  
GCCCGCACGCATAGCCTGGTTCCTGCAGGAGCTGCCTTCCTTTGGTGTGGTAGGGATGCTCGTTGG  
CAGCCCGCTCCCTCTTTGGACCTCCGGGAATGTGCTGCTGGGTCTTCTCTCCGCACATTACTCCACA  
GGACATTTATTTACTCATTGCTCACCAGAGGCAGGCCTTTATCAGCGGTGATCTTTCTGAAAGCCACTGC  
CTTCTGCATAGGGAACGGACTCCTGCAAGCCTATTACCTGGTTTATTGCGCGGAATACCCTGAGGAGTGG  
TACACAGACATGCGGTTTAGCGTCGGTGTCTTCTTTATTCTGGGGATGGGGATCAACATCCACAGTG  
ACTGCATGCTGCGCCAGCTCAGGAAGCCCGGAGAGGTCACTACAGGATCCCACAAGGTGGCTTGTTTAC  
GTATGTGCTGGAGCCAATTTCTGGGCGAGATTATTGAATGGATGGGCTACGCTTTGGCCACTTGGTCT  
GTTCCAGCCTTTGCTTTTGCATTTTTCACACTTTGTTTCTGGGGATGCAAGCTTTTACCACCACAGGT  
TCTACCTCAAGATGTTTAAGGATTACCCCAAATCTAGGAAAGCCCTCATTCCATTCATCTTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG223814 representing NM\_053188  
 Red=Cloning site Green=Tags(s)

MPIVCHQVPVLGASATLATMGTLLILCFGKPA SYGKHSESVSSGVPLLPARIAWFLQELPSFVVSVMGLAW  
 QPRLFGPPGNVLLGLFSAHYFHRTFFIYSLLTRGRPLSAVIFLKATAFCIGNLLQAYYL VYCAEYPEEW  
 YTDMRFSVGVFFFILGMGINIHSDCMLRQLRKPGVEIYRIPQGGFLT YVSGANFLGEIIEWMGYALATWS  
 VPAFAFAFFTL CFLGMQAFYHHRFY LKMF KDYPKSRKALIPFIF

TRTRPLE - GFP Tag - V

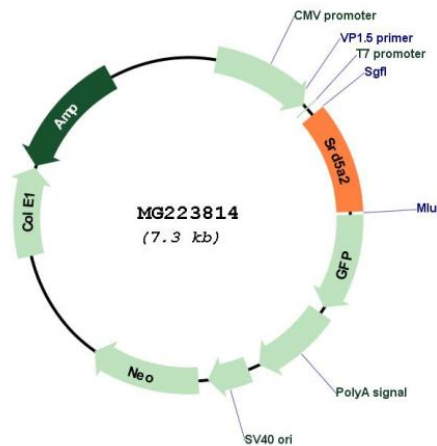
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_053188

**ORF Size:** 762 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_053188.3</a>
<b>RefSeq Size:</b>	854 bp
<b>RefSeq ORF:</b>	765 bp
<b>Locus ID:</b>	94224
<b>UniProt ID:</b>	<a href="#">Q99N99</a>
<b>Cytogenetics:</b>	17 E2
<b>Gene Summary:</b>	Converts testosterone (T) into 5-alpha-dihydrotestosterone (DHT) and progesterone or corticosterone into their corresponding 5-alpha-3-oxosteroids. It plays a central role in sexual differentiation and androgen physiology.[UniProtKB/Swiss-Prot Function]